



## U.S. Fish and Wildlife Service

## Manistee River/Sharon Road Habitat Restoration



Figure 1. Location of road/stream crossing

Brook trout and rainbow trout on the north branch of the Manistee River now have upstream access to an additional 12 rivermiles of habitat, much of it high quality spawning habitat. Located in Kalkaska County, Michigan (figure 1), the Sharon Road/Manistee River road/stream crossing project began construction on November 9, 2001. A single culvert was removed and replaced with a timber bridge (figures 2 and 2)



Figure 2. Sharon Road, before construction

The culvert was not large enough to pass water during precipitation events. Water collected on the upstream side of the culvert, warmed the water, and eroded the riverbanks. Due to lack of proper ditches and sediment basins, storm water ran down the road and directly into the river carrying with it sediments and other forms of habitat-

altering contamination. Construction of the timber bridge and hardening of the road surface (blacktop) alleviated water quality issues at the crossing. The timber bridge has enough clearance to accommodate a 50-year flood event.

The U.S. Fish and Wildlife Service (Service) Partners for Fish and Wildlife Program contributed \$10,000 towards this project, and the Service Fish Passage program provided \$15,000 towards a total project cost of \$220,000, almost a 9 to 1 match.



Figure 3. Sharon Road, after construction

Partners: Kalkaska County Road Commission, Huron Pines Resource Conservation & Development, U.S. Fish and Wildlife Service Alpena Fishery Resources Office, U.S. Forest Service, Natural Resources Conservation Service, Trout Unlimited, Maple Log Homes of Michigan, Kalkaska County Conservation District, Conservation Resource Alliance, and the Upper Manistee River Restoration Committee.

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